# Elton Xavier Joseph Costa

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## Work Experience

**Club Mahindra Resort, Varca Beach - Goa (Intern)**  **Jun 2022 - Jul 2022**
improved and maintained hotel guest wireless networks for smooth operation.  Network Administrator

**Hexcoderz, Vasco da Gama - Goa (Intern)**  **Sep 2021 - Nov 2021**
Developed proficiency in UI/UX fundamentals, Figma, HTML, CSS, and JavaScript.  Project lead

**YUVA panaji Website - Goa (Fullstack, Developer)**  **Apr 2024 - May 2024**
Led the design and development of the website  Project lead
Designed and integrated a dashboard to manage content on the website

## Projects

**LeafSync**
- Engineered a SQL database management tool which allowed me to make and view updates to my Database in real time, ensuring a Seamless user experience.
- Achieved efficient CPU usage (0.3%) and optimized RAM usage (30-90MB) for enhanced performance.
- Rendering and state-dependent views loads in an instant (90% faster then something like PhpMyAdmin)
  https://github.com/ryzxxn/LeafSync/

**Personal Image Storage**
- Implemented Images/Gifs storage and delivery using the imgBB API for over 10+ users.
- Unlimited Storage, upload up to 32mb/image enough for 90% of images captured by modern camera devices.
- Extended it Privacy and security by implementing Google Authentication
  https://pis.netlify.app/

**API (MISTRAL) LLM running on local-CPU**  **https://github.com/katanaml/llm-mistral-invoice-cpu (OpenSource)**
- Integrated accessibility and ease of use by replacing CLI (Command Line Interface) with API Interface, in around 30 lines of code(including error handling).

**Real-time Pixel Art Canvas**
- Real-time Pixel Drawing Canvas application synchronized across connected clients with latency less than 6ms.
- Canvas size(50x50) 2500px all synced using Websocket by only updating changed pixel reducing network bandwidth by 98%
  https://pixel-io.netlify.app/

**Axon**
- Enables users to submit Study material to generate a quiz of minimum 10 questions, this allows the user to benchmark themselves to know how much they have studied, 10-15 users found this useful.
- Leveraged GPU Acceleration to speed up response time by 88% (from 50s - 6s)
- Integrated a RAG system, users can ask questions to the document and axon will reply with the most correct and suitable answer from the documents.
  https://github.com/ryzxxn/Axon

## Skills & Other

**Languages**  C/C++, Javascript, HTML, CSS, SQL, Java, Typescript, Python, PHP, SQL, NoSQL, Shell
**Technical**  React.js, Next.js, Express, Three.js, Websockets, flask, AWS, Google Cloud , Docker, Figma, Blender , Photoshop, PremierPro, React Native, Data Structures, AI, Machine Learning, LLM, FastAPI, CLI, CI/CD, Github, Linux, Latex, Data Analysis, Database Design, MongoDB, System Design, Firebase, Auth
**Soft-skills**  Leadership, Open, Public Speaking, Prioritization, Analytical Reasoning

## Achievements

**Game Development** (reimagined space invaders using Scratch)
- Achieved 3rd place at a game making competitions
- 6 Levels + 1 boss Level

**Project Exhibition**
- Runner up for a project exhibition, where we displayed our project evergreen (plant, and essentials e-commerce platform)
- This netted us the attention of a few founder of startup that we later collaborated on how we could play a crucial role in bridging the gap between clients and suppliers by providing a platform to showcase their trades

## Education

**Bachelor's Degree in Computer Engineering** Fatorda, Goa  **Apr 2022 - May 2025**
Don Bosco College of Engineering  CGPA: 7.00
**Diploma in Computer Engineering** Verna, Goa  **Jan 2019 - mar 2022**
Agnel Polytechnic  CGPA: 8.00

## Extra Curricular
- Inter-School art competition : Secured 1st place.
- Organized Incarnate an inter-College, School, Diploma Artwork competition,45+ students participated.